TEST REPORT

MODEL NAME : UP300S24W2L

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1. DESIGN VERIFY TEST

1-1. INPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
VOLTAGE RANGE	200~240VAC	I/P: testing O/P:full load Ta:25℃	test ok	P
FREQUENCY RANGE	47~63Hz no damage osc	I/P:200~240VAC O/P:full~min. load Ta:25℃	test ok	P
EFFICIENCY	92% typ.	I/P:220VAC O/P:full load Ta:25℃	92.5%	P
AC CURRENT	2.6A/220VAC typ.	I/P:220VAC O/P:full load Ta:25℃	2.63A/220VAC	P
INRUSH CURRENT	45A typ. cold start	I/P:220VAC O/P:full load Ta:25℃	44.5A	P
LEAKAGE CURRENT	2mA max.	I/P:220VAC O/P:min. load Ta:25℃	0.15mA	P

1-2. OUTPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
RIPPLE&NOISE	1000mVp-p max.	I/P:220VAC O/P:full load Ta:25℃	520mVp-p max.	P
VOLTAGE TOLERANCE	24V± 3%	I/P:220VAC O/P:full/min. load Ta:25℃	± 0.5%	P
LINE REGULATION	24V± 1%	I/P:200VAC/240VAC O/P:75% load Ta:25℃	0.3%	P
LOAD REGULATION	24V± 2%	I/P:220VAC O/P:full~min. load Ta:25℃	± 0.2%	P

SETUP TIME	3000ms/220VAC max.	I/P:220VAC O/P:full load Ta:25℃	402ms/220VAC	**P**
RISE TIME	100ms/220VAC max.	I/P:220VAC O/P:full load Ta:25	8.2ms/220VAC	**P**
HOLD UP TIME	5ms/220VAC typ.	I/P:220VAC O/P:full load Ta:25	8.5ms/220VAC	**P**

1-3. PROTECTION FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
SHORT PROTECTION	short every output 1 hour no damage	I/P:240VAC O/P:full load Ta:25℃	no damge, recovers automatically after fault removed	**P**
OVER LOAD PROTECTION	110% min.	I/P:220VAC O/P:testing Ta:25℃	116% recovers automatically after fault removed	**P**
OVER TEMP. PROTECTION	temp. sensor: 95±10℃ no damage	I/P:230VAC O/P:full load	O.T.P active, automatically after fault removed	**P**

2. SAFETY & EMC TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
WITHSTAND VOLTAGE	I/P-O/P:3KVAC/1min<10mA I/P-F/G:1.5KVAC/1min<10mA O/P-F/G:0.5KVAC/1min<10mA	I/P-O/P:3KVAC/1min I/P-F/G:1.5KVAC/1min O/P-F/G:0.5KVAC/1min Ta:25℃	I/P-O/P:1.7mA I/P-F/G:1.2mA O/P-F/G:0.2mA no damage	**P**
ISOLATION RESISTANCE	I/O-O/P:500VDC>100MΩ I/O-F/G:500VDC>100MΩ O/P-F/G:500VDC>100MΩ	I/P-O/P:500VDC I/P-F/G:500VDC O/P-F/G:500VDC Ta:25℃	I/P-O/P: ∞ I/P-F/G: ∞ O/P-F/G: ∞ no damage	**P**

3. RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
LOW TEMP. TURN ON TEST	turn on after 2hour	I/P:220VAC O/P:full load Ta:--40℃	test ok	P
STORAGE TEMP. TEST	no damage	1.thermal shock temp.:-40~+75℃ 2.test time low & high temp.:30min/each 3.total cycle:5cycle 4.input/output condition:static	test ok	P
THERMAL SHOCK TEST	no damage	1.thermal shock temp.: -40~+70℃ 2.test time low & high temp.:30min/each 3.total cycle:10cycle 4.input/output condition: 220VAC 75% load, AC on/off test (turn on 58sec,turn off 2sec)	test ok	P
VIBRATION TEST	no damage	1CATON&1SET 1.wave form:sine wave 2.frequency:10~500Hz 3.sweep time:10min./sweep cycle 4.acceleration:2G 5.test time:60min. in each(X,Y,Z) 6.Ta:25℃	test ok	P